

**A METHOD AND APPARATUS FOR ESTIMATING QUALITY IN A  
TELEPHONIC VOICE CONNECTION**

**ABSTRACT OF THE INVENTION**

A device is disclosed that uses an continuous analytical function representing mapping data relating object voice connection measurements to likely user perception of the quality of a voice connection. The device is compact and inexpensive. It can be implemented on a single integrated circuit, or on a single printed circuit board. CPU processing time is significantly reduced. The device obtains a real-time estimate of likely user perception of a given connection in terms of a user perception rating system. The device is reprogrammable, enabling it to be updated as more accurate mapping data is obtained.